

**10/518472**

**RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/S/8,472  
Source: PST  
Date Processed by STIC: 1-10-05

***ENTERED***



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/518,472

DATE: 01/10/2005

TIME: 15:20:58

Input Set : A:\82368-15.app

Output Set: N:\CRF4\01102005\J518472.raw

```

3 <110> APPLICANT: Ito, Masashi
4     Saito, Yasushi
5     Eisai Co., Ltd.
7 <120> TITLE OF INVENTION: Primary Cultured Adipocytes for Gene Therapy
9 <130> FILE REFERENCE: 082368-001500US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/518,472
C--> 12 <141> CURRENT FILING DATE: 2004-12-16
14 <150> PRIOR APPLICATION NUMBER: JP 2002-177648
15 <151> PRIOR FILING DATE: 2002-06-18
17 <150> PRIOR APPLICATION NUMBER: JP 2002-237974
18 <151> PRIOR FILING DATE: 2002-08-19
20 <150> PRIOR APPLICATION NUMBER: WO PCT/JP03/07721
21 <151> PRIOR FILING DATE: 2002-08-19
23 <160> NUMBER OF SEQ ID NOS: 11
25 <170> SOFTWARE: PatentIn version 3.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 30
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial
32 <220> FEATURE:
33 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for amplifying
34     human insulin gene
36 <400> SEQUENCE: 1
37 cataagctta ccatggccct gtggatgcgc 30
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 30
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial
45 <220> FEATURE:
46 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for amplifying
47     human insulin gene
49 <400> SEQUENCE: 2
50 cattctagac tagttgcagt agttctccag 30
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 37
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial
58 <220> FEATURE:
59 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for
60     mutagenesis
62 <400> SEQUENCE: 3
63 cttctacaca cccaggacca agcgggagggc agaggac 37
66 <210> SEQ ID NO: 4

```

## RAW SEQUENCE LISTING

DATE: 01/10/2005

PATENT APPLICATION: US/10/518,472

TIME: 15:20:58

Input Set : A:\82368-15.app

Output Set: N:\CRF4\01102005\J518472.raw

```

67 <211> LENGTH: 28
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial
71 <220> FEATURE:
72 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for
73     mutagenesis
75 <400> SEQUENCE: 4
76 ccctggaggg atcccggcag aagcgtgg                                28
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 29
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial
84 <220> FEATURE:
85 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for
86     mutagenesis
88 <400> SEQUENCE: 5
89 cacctgtgcg gatccgacct ggtggaagc                                29
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 83
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial
97 <220> FEATURE:
98 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for
99     constructing a gene encoding a secretory human GLP-1
101 <400> SEQUENCE: 6
102 ttccaccatg ctgctgctgc tgetgctgct gggcctgagg ctacagctct ccctgggcca    60
104 tgetgaaggg acctttacca gtg                                           83
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 95
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial
112 <220> FEATURE:
113 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for
114     constructing a gene encoding a secretory human GLP-1
116 <400> SEQUENCE: 7
117 aattatcctc ggcctttcac cagccaagca atgaactcct tggcagcttg gccttccaaa    60
119 taagaactta catcactggt aaaggtccct tcagc                               95
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 20
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for PCR
130 <400> SEQUENCE: 8
131 ttccaccatg ctgctgctgc                                20
134 <210> SEQ ID NO: 9
135 <211> LENGTH: 23
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial

```

## RAW SEQUENCE LISTING

DATE: 01/10/2005

PATENT APPLICATION: US/10/518,472

TIME: 15:20:58

Input Set : A:\82368-15.app

Output Set: N:\CRF4\01102005\J518472.raw

```

139 <220> FEATURE:
140 <223> OTHER INFORMATION: an artificially synthesized oligonucleotide for PCR
142 <400> SEQUENCE: 9
143 aattatcctc ggcctttcac cag 23
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 144
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: a gene encoding a secretory human GLP-1
154 <220> FEATURE:
155 <221> NAME/KEY: CDS
156 <222> LOCATION: (1)..(144)
157 <223> OTHER INFORMATION:
W--> 159 <400> 10
160 atg ctg ctg ctg ctg ctg ctg ctg ggc ctg agg cta cag ctc tcc ctg 48
161 Met Leu Leu Leu Leu Leu Leu Leu Gly Leu Arg Leu Gln Leu Ser Leu
162 1 5 10 15
164 ggc cat gct gaa ggg acc ttt acc agt gat gta agt tct tat ttg gaa 96
165 Gly His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu
166 20 25 30
168 ggc caa gct gcc aag gag ttc att gct tgg ctg gtg aaa ggc cga gga 144
169 Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
170 35 40 45
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 48
175 <212> TYPE: PRT
176 <213> ORGANISM: Artificial
178 <220> FEATURE:
179 <223> OTHER INFORMATION: a secretory human GLP-1
181 <400> SEQUENCE: 11
183 Met Leu Leu Leu Leu Leu Leu Leu Gly Leu Arg Leu Gln Leu Ser Leu
184 1 5 10 15
186 Gly His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu
187 20 25 30
189 Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
190 35 40 45

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/518,472

DATE: 01/10/2005  
TIME: 15:20:59

Input Set : A:\82368-15.app  
Output Set: N:\CRF4\01102005\J518472.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11

## VERIFICATION SUMMARY

DATE: 01/10/2005

PATENT APPLICATION: US/10/518,472

TIME: 15:20:59

Input Set : A:\82368-15.app

Output Set: N:\CRF4\01102005\J518472.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:159 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:157